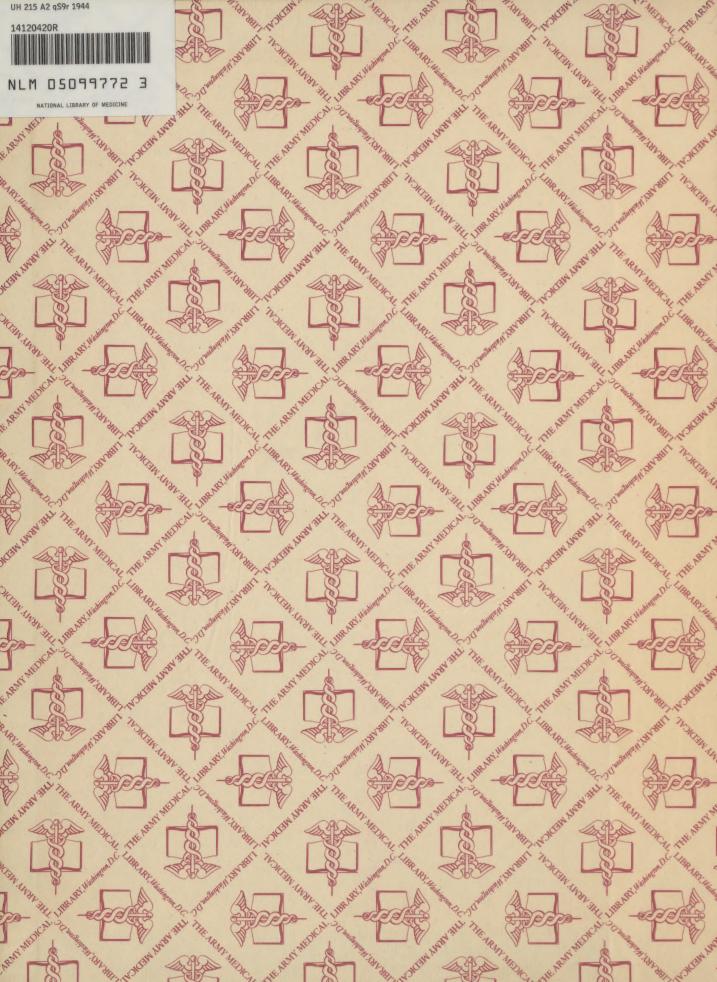
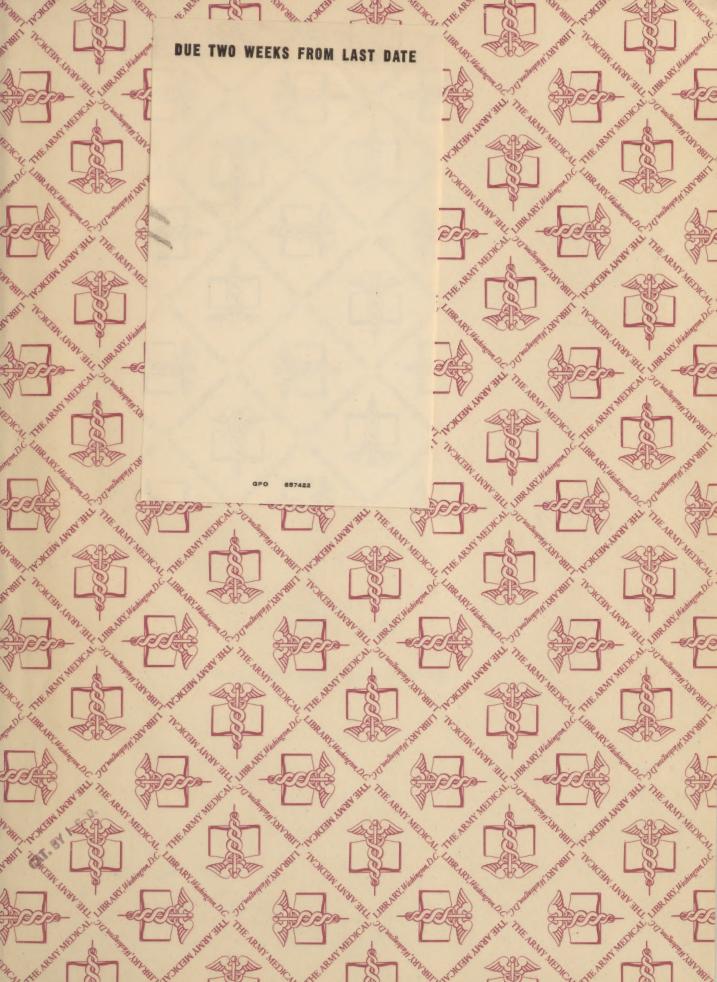
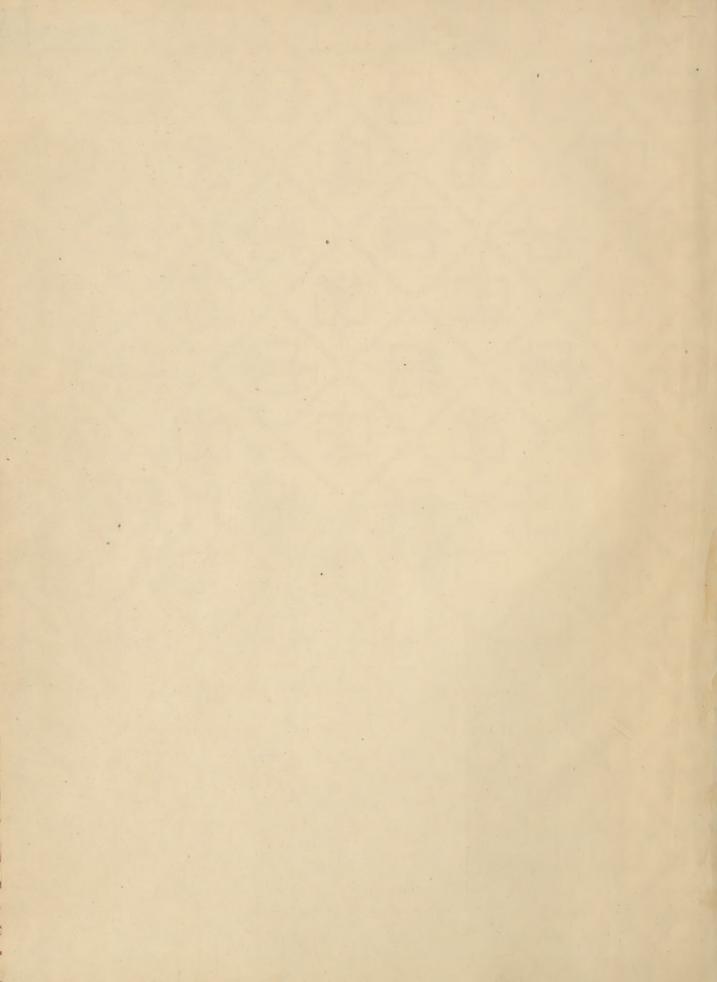
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OFFICE OF THE SURGEON GENERAL

Report Of

Medical Department Activities

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O. R. HILL Lt. Colonel, M. C.

Surgeon, Greenland Base Command

6 September 1944

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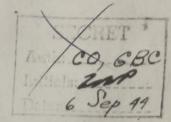
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Interview with Lt. Col. O.R. Hill, M.C., O-318401 Surgeon

of Greenland Base Command and 188th Station Hospital



Introduction: Otho Reed Hill, Lt. Colonel, Medical Corps-Surgeon Greenland Base Command; Surgeon, Army Air Base A.P.O. #858, New York, N.Y.; Commanding Officer, 188th Station Hospital - from 9 November 1943.

1. Geography and Climate:

A.P.C. #858 is in southwestern Greenland at the head of Tunugdliarfik Fjord. The terrain is very mountainous and rugged. The summers are rather short, mild and moist; the fall is short; the winters are long and tempestuous. The spring is late, coming in May and June. The same applies generally for A.P.C. #615 and A.P.C. #679 but A.P.C. #859 is above the Arctic Circle and has a much colder and drier climate in winter. This base has more good weather for flying than any other base.

A.P.O. #615 is located at Ivigtut on the west coast of Greenland. It will be completely closed up by winter and the hospital inactivated. A.P.O. #859 is at the head of Sondrestrom Fjord on the west coast of Greenland and about 15 miles north of the Arctic Circle. A.P.O. #679 is at Ikatek just north of Angragssalik on the east coast of Greenland. All bases except A.P.O. #615 have an airfield.

The terrain is essentially the same at all bases.

The total population of Greenland is about 16,000 and most of these are found along the west coast of Greenland from Cape Farewell up to about 70°N. A.P.O. #615 is the only base located near a settlement and it is almost in Ivigtut. A.P.O. #858 and A.P.O. #679 are fairly close to small native villages. Of the population All except 600 or so are Greenlanders (Eskimos with a more or less generous admixture of Luropean blood). The remainder are mostly Danes. The natives are simple and friendly. Tuberculosis is a tremendous problem with them; however, there is very little contact between the Armed Forces and the natives.

there is very little contact between the Armed Forces and the natives.

It should be understood that communication and travel in Greenland is very restricted. There are no roads, railways or telegraph systems. Travel was an is almost entirely by boat, dog sleds being found only in northern Greenland. The Armed Forces travel by boat and air. Each colony or settlement of any size has a

radio station and some of them have weather stations.

2. Organization and Personnel:
The strength of the Command, as of
5 August 1944 was divided up as follows:

Peak strength of Command was 3 Oct 43 as follows:

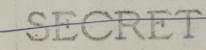
144 Weather personnel on D.S.

A.P.O. #858 2193 3600 A.P.O. #859 539 931 A.P.O. #679 373 377 A.P.O. #615 203 554

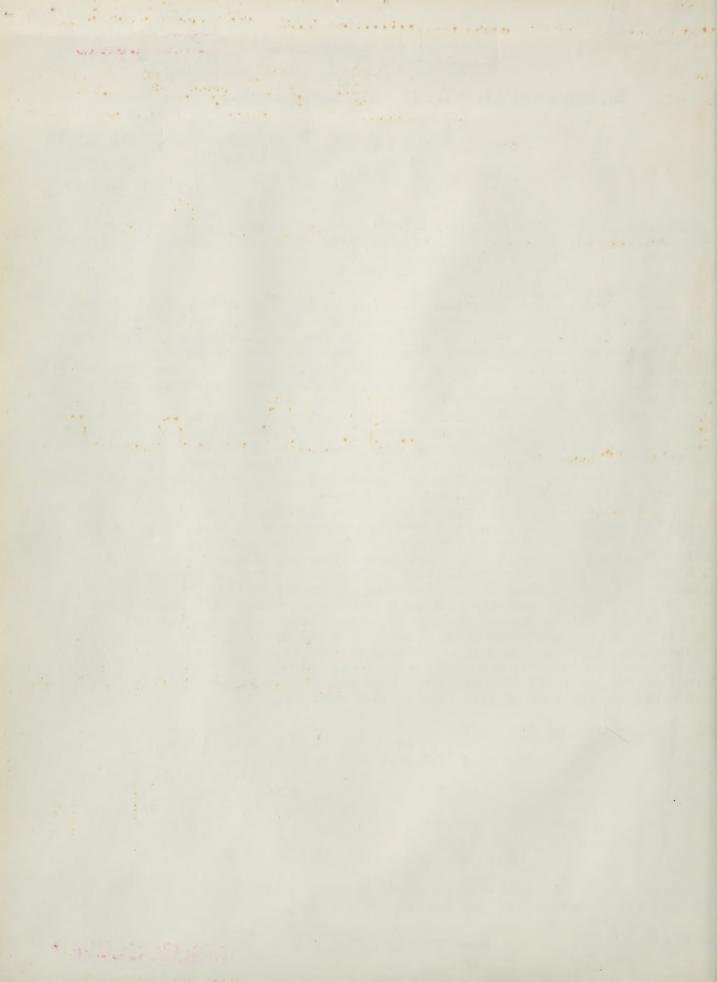
Each post is composed of service units, AACS, Weather, Air Corps, Infantry, (nearly all withdrawn now) and Anti-Aircraft (nearly all withdrawn now). In

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addition, at A.P.O. #858 there are 200 Coast Guard and Navy personnel stationed ashore. There are a number of Coast Guard Cutters, Sub-chasers and other boats stationed at A.P.O. #858 and A.P.O. #615 or that come in and out.

The Medical Department Personnel is as follows:

| A.P.O. | #858 | 188th Sta. | Hospital | 200 | beds | 15 Nurses | 14 | Officers | 110 E.M. |
|--------|------|------------|----------|-----|------|-----------|----|----------|----------|
| A.P.O. | #859 | 190th Sta. | Hospital | 25  | beds |           | 4  | Officers | 25 E.M.  |
| A.P.O. | #679 | 191st Sta. | Hospital | 25  | beds |           | 4  | Officers | 16 E.M.  |
| A.P.O. | #615 | 189th Sta. | Hospital | 25  | beds |           | 4  | Officers | 25 E.M.  |

Besides the 188th Station Hospital at A.P.O. #858 there are 2 flight surgeons and 5 enlisted men of the medical detachment of the 1st Arctic Search and Rescue Squadron. One Veterinarian is attached to the Greenland Base Command and he divides his time between A.P.O. #858 and A.P.O. #859 where the Army has sledge dogs. In addition, he periodically visits the other 2 bases, making meat and meat products inspections. Finally, there has recently been one medical officer assigned to the Ice Cap Detachment. The base of operations for this group has been the east coast of Greenland but is being moved to A.P.O. #858.

There are no civilian employees. The last of the civilian contractors left

in February 1944.

In my opinion there is only one inadequact in the Tables of Organizations. There is no provision made for ratings, or extra men, for outpost duty. Twelve outposts mainly weather stations and AACS installations, are raintained besides the 4 main bases. One medical aid man has been kept at each of these in the past. As all grades and ratings in a hospital T/O are for duties in these hospitals, no provisions are made for men on Detached Service. The highest ratings available would be T/5 and it is felt that 6 or 8 months continuous duty at an isolated outpost is deserving of better than this, particularly as the weather and AACS personnel at these outposts get ratings better than T/5.

Where possible all hospitals have been operated under their T/O strength.

3. Operations:

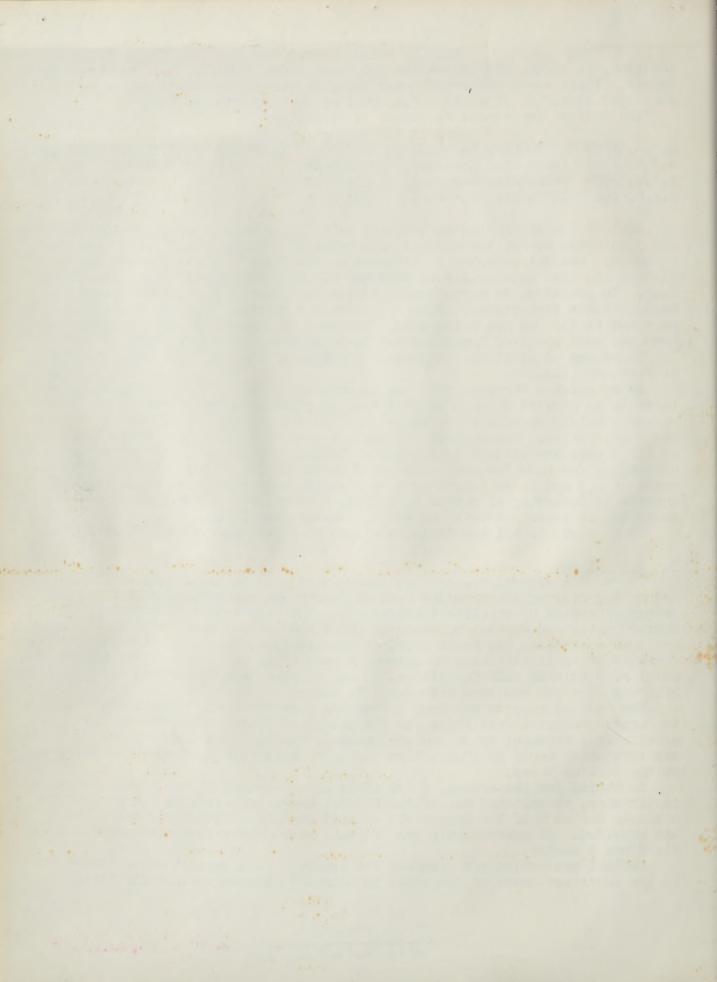
There were several reasons why troops were sent to Greenland, among them being; a. securing the cryolite mine at Ivigtut-at one time this mine was the principal source of cryolite (necessary for the manufacture of aluminum) for the United States and Canada; b. securing Greenland against occupation by the Germans and thus protecting the North American Continent; c. providing airfields for the ferrying of tactical planes to Europe; d. providing weather stations and weather data; e. providing AACS facilities. a. and b. have been eliminated and a reduction of troop strength has been effected this summer as a result.

The medical mission has been to provide care for these troops. In addition, to furnish hospital facilities for the Greenland Patrol (Coast Guard Vessels), Naval ships, merchant ships and employees of the civilian contractors. This last was terminated early in 1944 but at one time there were 3200 civilian employees

at the various bases.

In caring for the troops, 4 hospitals were provided at the 4 main bases. In addition, an enlisted man of the Medical Corps was provided for each of the outposts and at 5 of the larger outposts (3 now abandoned) a medical officer was provided. At present only one outpost, where there is an emergency landing field has a doctor.

Medical protection was provided for several small expeditionary forces sent to the northeast coast of Greenland to eliminate German weather stations.



4. fedical situation

a. Hospitals

BUILDING BUILDING

(1) The 188th Station Hospital, at A.P.O. #858, is located about 1 piles from the sirfield in easy from the refield in a sirfield in easy rain or that the head of a small lake. This area does not brain too all after a heavy rain or that, but such he main to refine ment. There are 30 heildings on 20 acres. 29 of these brillings are commeted by he tadend included a rilors. The type of construction is the regular cantonerant time fills including and a central steam heating system. All heildings are many. Electricity is provided by a separate construction for 8 whiches. There is a scorrate fire hall for the hospital area. Two of the five was decases are heated. This bospital was designed as a 250 bed unit but only 5 acres (2 standard wards, 2 carbination wards and 1 detention) were find ded constitutely of the 9 created. The other 4 wards are used for a combination theatre and classel, a Red Gross center and gymnasium, a Physiotherapy ward plus linen eredungs and carponter shop and the last ward is used for an engineer and utility detachment that keeps up the hospital. There is running hot and cold water with a sewage system.

150 bods have been set up but there is quickly available space for at least 300 patients. At present the T/O is that of a 200 b d hospital. The highest patient census was 148. The average winter census (1943-44) was 90-100. The

average summer census (1944) 50.

of 2 officers and 14 enlisted men. They set up a 10 bed discensary under tents. In October 1941 they moved into their first building. 6 June 1942 the hospital moved into larger quarters. This was a warehouse that had other building added to it from time to time until there was a bed capacity of 60. This capacity as taxed to its utmost and quarters cases and neighboring barracks were used, as needed, until December 1943, when the present buildings were occupied. Cost of present

hospital \$1,769,022.

(2) The 189th Station Hospital, at A.P.O. 615, is located right in the camp, on a rather rocky hill. It drains very well. The hospital consists of 2 buildings connected by a heated hallway and 2 more unconnected buildings. The buildings are modified barracks, built from prefabricated wood sections. These buildings are not insulated. One new wing is insulated. There is a large Duotherm type oil heater with a fan and warm air conduits for the main building. The others are heated by single oil stoves set at intervals. The heating has been adequate. There is electricity and hot and celd running water. There is also an adequate sewer system. The one warchouse is heated. The buildings, as used were taken over from the U.S.E.D.

The T/O is that of a 25 bed hospital but there is space for 50 beds. 40 beds have been set up. There have been as many, as 80 patients in the hospital at one time. The average winter census (1943-44) was 15-20. The average summer census

(1944) around 10.

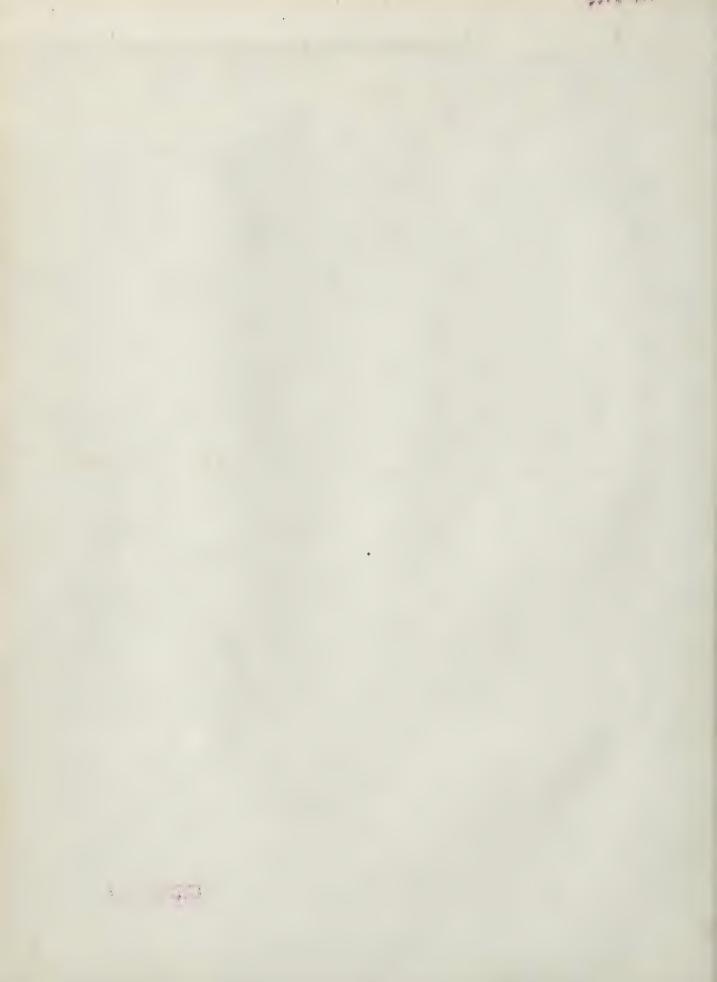
The first troops arrived at Ivigtut 18 March 1942. The first dispensary was set up in 2 rooms in a house in the village of Ivigtut. In June 1942, part of the present main building was occupied and 8 beds set up. The 189th Station Hospital was activated 3 September 1942. Cost of hospital \$175,000.

This base is in the process of being shut down and it is anticipated that the

189th Station Hospital will be inactivated by the winter of 1944.

(3) The 190th Station Hospital, at A.P.C. #859, is located about in the from the airfield in the main camp area. The grounds are a leveled off silted area at the head of a fjord, it drains well. The hospital consists of 6 buildings, all unconnected and each over 100 feet apart. The main building is a remodeled H type mess hall. The others are regular barracks constructed of prefabricated wood





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The first troops received this location 7 vetober 1941. A small hereital was completed at the Port area 10 December 1941. The airfield was to be in it 0 miles and but the head of the fiord was so shallow that boots could not go any further. So, roads had to be in it, from this port area where all sup lies and building materials were landed, to the rain camp and airfield site. The 190th Station Hospital was activated, September 1942. An elaborate, 200 bed bosnitel has to be built at this Port area and 7 or 8 buildings were actually started. Come on sense prevailed and an H time mass hall at the airfield was converted into a hospital of 50 beds in the summer of 1943. This was occupied 22 September 1943 and the old U.S.E.D. Hospital at the Port area, (also a converted mess hall) has abandened as well as the new construction that had been started. 29 September 1943 the T/O was reduced from 200 bed to 50 bed. 1 July 1944 the T/O was further reduced to 25 beds. Cost of hospital \$632,000.

At present 25 beds are set up but by using the other buildings available up to 100 beds could be set up. The highest census was 87. During the winter (19/3-

44) the average census was 30-35, summer (1944) 15-20.

(4) The 191st Station Hospital, at A.P.O. #679, is located about in left from the airfield, away from the main carp, on the lower slope of a mountain over-looking a lake. The grounds drain well. There are 4 buildings, 3 of them connected by corridors that are noorly heated. Those buildings are all insulated modifications of the regular cantonement type hospital. They are heated by spaced oil heaters. The heating is adequate. There is hot and cold running water in the hospital, also a sewage system. In cold weather, (below-15°) there is sometimes trouble with pipes freezing. There is one heated warehouse.

The T/O was set up in Sentember 1942 as 150 beds. On 17 July 1943 the T/O was reduced to 50 beds. 1 July 1944 it was further reduced to 25 beds. The greatest patient census has been about 35. Average winter census (1943-44) was 10-15. Average summer census (1944) was 5-10. Up to 100 patients could be ac-

commodated easily. 25 beds are kent set up.

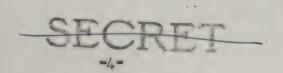
The first troops reached this location 2 November 1941. Shortly after a small U.S.E.D. hospital was set up. This was taken over 26 June 1943 by the Greenland Base Command (ASF). Cost of hospital \$446,000.

b. Professional Service

(1) Surgery
(a) Evacuation

l. Patients come to the 188th Station Hospital by post bus or by ambulance. If they are being evacuated from other parts of Greenland, they come to this post by air or boat, as the other hospitals evacuate to the 188th Station Hospital. Patients are evacuated from this hospital to the United States by air mainly, but sometimes by boat.

2. Chest wounds are the only special problem in cases evacuated by air. No chest injuries have been evacuated but one spontaneous pneumothorax was evacuated and oxygen (by mask) was furnished and a canula placed in pleural cavity so that air could be withdrawn in case of dyspnea at high altitude.



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osts among hiking and skiing parties. Evacuation by basket litter is laborious and time consuming due to the run of terrain. Evacuation from any part of Greenland is frequently delayed because of bad flying conditions or ice packs preventing boat transportation.

4. This command is not in combat zone so no comment on wounds.

(b) During the first 8 months of 19/4, 39% of the total admissions to the 198th Station Hospital were surgical cases. This is about the same for other hospitals in Greenland. Infections and contactions diseases are not frequent in breenland. Infections and contactions diseases are not frequent in breenland. Infections and contactions diseases are not frequent in breenland. Injuries

and ship loading and unloading.
(c) Buttle Casualties:

1, 2, 3, 4, 5, 6 do not apply to this command. The only battle casualties seen are air evacuees from D.T.O. to United States.

(d) Specific Types of Wounds:

1. Cornound fractures complicating extremity wounds have been infrequent

2. Bi-calleolar fractures of the ankle have been nort common and are attributed to the runed termin. Fractures of the lower 1,3 of the fibula are next cornon. Fractures of the shifts of long benes have been infrequent

2. No peripheral nerve injuries seen with wounds.

4. No rejor varcular injuries comblicating extra ity wounds seen.

2. No chance for special observation on types of wounds of the chest abdomen and head.

(c) lasma: The rundy is adequate and easily available. There have been no reactions.

- (f) Whole Blood: On the infrement occasions that whole blood has been used, the demors were obtained from volunteers in the or mization. The blood can be stored for a short time in refrirerators or during the winter on the outside. There has been one reaction, with termer ture of 106.4 three hours after transfision listeners ture as normal the following day. It is our observation that plasma is as efficacious for treatment of shock as whole blood.
  - (g) Specific Infections:

1. Gas Gangrene -- No cases seen.

2. Tetanus -- No knowledge of any case.

3. Amebic Henatitis and abscess-One case of liver abscess has been treated. Stool explinations were negative for parasites and the patient was evacuated to United States for further treatment.

4. No other specific infections.

(h) 1. Sulfanila ide nowder is routively used locally in commond fractures, deep lacerations and intra-abdominally in sunpurative cases. The results have been good. This is supplemented by oral or intravenous administration in febrile cases. In clean cases that man a febrile course, sulfana ides are used generally. These drugs have been very valuable.

2. Penicillin has not been used in the tratment of gas angrene.

There have been no surgical infections at this hospital this year.

(i) Special Surgical conditions:

1. Trench foot--No cases seen.

Immersion foot: sixty-five cross were studied 14 conths after immersion following the sinking of a transport in the icy of ters. The average time of immersion was five and one-half hours. Complaints of rest pain, numbers of lover extranity and increased perspiration of fact were common. Plantar ischemia, superficial variousities and decreased peripheral arterial pulsation of the dorsa is pedia artery existed in a high proportion of cases and was thought to be due to fibrosis of the extractty, see notice to initial inflammatory reaction after immersion rather than to see noticy ancies com.

Front bite is treated by the current recommended rethod i.e. elevation of

extremity, ice have, weet ett m, and re had abauting. he offer no

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criticism, of this procedure.

2. Blast injuries -- No cases seen.

2. Burns; In reneral these cases are tro ted by cleaning with white soap, removal of loose skin and application of vaseline pressure dressings. This routine is preferred to other methods in most bases.

Anesthesia:

1. The agents used in order of frequency at the 188th Station Hospital (a) 56.8% local injection of novacaine (1%-2%) (b) 16.2% procaine hydorchloride (spinal) 100 mgs (46%) and 150 mgm (54%), (c) 6.1% Sodium Pentothal 2.% solution, (d) Cocaine solution 2.7% (4) (e) 1.0% Numercaine, (f) 0.4% Lther, (g) 0.2% Pontocaine (h) 0.2% Butyn, (i) 16.4% No anesthesia.

2. Local and regional anesthesias are preferred if the case permits because the surgeon can act as his own anesthetist thus requiring less persennel. Sodium pentothal has been very satisfactory because of rapid, easy induction, lack of post anesthetic nausea and easy administration. Cocaine and its derivities have been used mostly in LEN&T work. There have been no anesthetic deaths.

(k) Surgical Supplies:

1. The TBA seems adequate for station hospitals in general. However, the 188th Station Hospital is in a very separate catagory. If it were near a general hospital where patients could be readily evacuated for surgery all would be well. However, this hospital's function is rather unique since it often functions in the manner of a regional hospital, cases are often referred here for diagnosis, treatment and disposition from the other hospitals in Greenland. Therefore the TBA for a hospital of 200 beds is not adequate for the 188th Station Hospital to perform its function. However, special items of equipment which were requisitioned were supplied in most cases.

2. No comment

3. Special instruments and supplies not called for in the TBA were requisitioned and received in most cases.

1. Surgical specialists have been available where most needed. (1)

2. The T/O's are quite satisfactory in regards to surgical personnel.

3. No suggested changes.

No criticisms of surgical nolicies or suggestions.

(a) None of the diseases following have been diagnosed during my stay; amebic dysentery, bacillary dysentery, dengue, filariasis, hepatitis, leishman-

iasis, malaria, schistosomiasis or typhus fever.

The few fungus infections have been epidermonhytosis of the feet and sometimes of the hands or other areas. In this climate the usual "athletes" foot is not as severe as in a warmer climate. They have responded to treatment well and I believe all returned to duty.

Psoriasis becomes worse as do mild cases of ichthyosis. Several such cases have not responded to treatment have been returned to the United States.

One case of meningococcus mengititis (so diagnosed but organisms never recovered) treated by penicillin and sulfanarides, recovered and returned to duty.

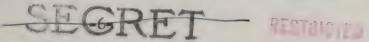
The few cases of peptic ulcer diagnosed have been tried on diet and powders. Most of them have been returned to the United States as few stay cured any length of time

Tuberculosis has been infrequent, only 3 or 4 cases with a pos-

itive diagnosis. All returned to the United States.

Penicillin and sulfana ides have cured all except one or two cases of gonorrhea. These were finally returned to the United States. There is really no veneral problem.

(b) Penicillin has been available to this command, since February 50 units are received automatically each month from the Boston Port of Em-1944.





barration. This is shared with all 4 hounitals and at times the Coast Guard has been given some. The supply has been adequate.

cur exertence has 'een rather limited but 4 cases of porries have been cured (2 of them sulfa-registent). Other pures by the been effected in herdeolum sinusitis, of the redis and hand infections. Improvement as noted in one case of broncho-meumonia (did not type by Neufeld at od from type I through VII) persistent furmeculosis, seels in action and a reverse burn. No improvement in some vulteria, ache necrotics militaris of scale, prostatitis (cause stach sureus), mixed wound infection.

All of our doctors went rore exterience with this new roduct. So for, they have probably tried it too extensively but efforts are being made to confine the use of maicillin to only recommended cases. Also such case penicillin is used in is summarized and from time to time the series is studied.

(c) No criticism or surrections concerning present medical policies

or for improving care.

(4) The professional journels distributed overseas, (in our commend) were adequate but slow in arriving. I would suggest note latitude in selection of professional books for small bosmittels. The list is rather limited for a 25 or 50 bed hospital.

(3) Neuropsychiatry

(a) Incidence of Neuropsychiatric cusualties.

1. No figures for battle casualties.

2. For the first 6 renths of 1944, 4.1% of all cases admitted to the 188th Station Hospital were neuropsychiatric, (total of 52 cases). This represented a number of transfers from the other 3 hospitals. The actual psychiatric figure for the same time was 3.2%. For the same length of time the psychiatric admissions for this command were 2.3% of all admissions.

2. The annual rate per 1000 for A. P.O. #858 (188th Station Hospital

for the first 6 months of 1944 is as follows:

| Psychiatric | Jan. | Feb. | Mar.<br>40 | Apr. 20 | May<br>42 | June<br>25 |
|-------------|------|------|------------|---------|-----------|------------|
| Neurologic  | 0    | 0    | 22         | 16      | 5         | 0          |

4. It is the concensus that rainly those individuals with predispos-

ing factors are those that breakdown.

5. Officers hold out perhaps a bit better than enlisted men but proportionately they have a bit more freedom and more privileges so shouldn't have the sense of discrimination that many soldiers complain of.

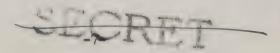
6. The cases referred to in par. 4b (3) (a) 2 above, were divided

as follows:

## Psychoneurotics (68.4% of total)

| Type                           | No of Crses   | %                    |
|--------------------------------|---------------|----------------------|
| Anxiety                        | 15            | 28.5                 |
| Mixed                          | 12            | 22.8                 |
| Hypochondriasis                | 3             | 5.7                  |
| Psychopathic personality       | . 3           | 5.7                  |
| Hysteria                       | 2             | 3.8                  |
| Neurociculatory asthenia       | 1             | 1.9                  |
| Psychoses (7.6% of total)      |               |                      |
| Schizophrenia                  | 1             | 1.9                  |
| Paranoia                       | 2             | 3.8                  |
| Manic depressive               | 1             | 1.9                  |
| The rest were neurologic cases | • There cre : | no time "exhaustion" |

The rest were neurologic cases. There are no true "exhaustion" cases.





There were 8 A.C. crace, 63 Cummer Court Particle, 43 Special Court Partials, 7 Concret Court Partials and 2 suicides. There were 2 suspected self increted wounds but neither was proven.

(b) Treetrent and disposition of neuropsychistric cases.

1. All of the parchoses, 10 of the paychoneurotics and one

of the neurologic cases were returned to the United States.

2. No experience

therapy are all used. Also early return to duty. We have used no group paychotherapy as such but each patient cost to the hespital theatre, orientation lectures, and reconditioning classes with other types of patients.

4. There is no neuropsychiatric reconditioning center in this

cormand

5. There is no demand for "limited service" personnel but in so fer as possible men in this former elastification are used rather than being sent back.

(c) Dynamics of Neuropsychiatric cases.

l. There is no combat in our area. Prestically everyone ants to go home. Many men and some officers can not see any reason for their being long in Greenland since the war is going so well. All personnel believe that troop strength could be reduced further and that maybe they will be the lucky ones to profit by such a reduction. A sense of duty keeps nost individuals coing and is quite evident from corporals on up. No especial enger a minut Germans, many would like to fight against the Japs. Not many officers or men exhibit much spontaneous accressiveness. Perhaps this would change in a more active theatre.

2. "Telling why", in my opinion works much better than diving

orders arbitrarily.

. No mass panic or group fear reactions recorded.

4. I'd say that the rajority accept the idea that every one is afraid in certain circumstances.

5. The only enemy propaganda we are exposed to are German broadcasts in English. I don't think it has much or any effect, except possibly increase homesickness.

6. Most officers and men that I have heard express therselves are rather bitter and antagonistic toward strikes. Buch of this is automatically laid scainst Labor. The reneral opinion is that Labor (and other groups, as farmers management, etc.) have been selfish and have profited financially even to slowing and impeding the war effort. Many of the en isted men feel that the country "ones them" plenty to make up for this and intend to "do something" about it when they can. Much of this is undoubtedly just talk but there is a deep scated resentment against strikes and a firm conviction that in cash and benefits the country can not do too much for them (soldiers). The former American Legion estivities may look small corpared to the future demands of present soldiers.

7. Most tactical troops have been removed and there is no combat. However, I think there is some talk among the troops about beace terms. Fow have any definite proposals or even much knowledge of the complexities of making a lasting peace. The "ew ideas I have heard have been for harsh and drastic treatment of both Japan and Germany, so as to prevent any possible recurrence of another war with them. There has been a little loose talk about an "inevitable" war with

Russia.

8. Admiration of the Russian fighting qualities is general.

Also rather general approval of letting Russia deal with Gerrany after the war.

The British are accepted rather as a matter of fact and not too warmly. Quite a few feel that the British are using us for their own Lapire building. Churchill





Mesinicial is penerally admired, perhas as such as Stallin. Comado and Australia are held in core enter then the British. Weence and other countries are not discussed rach :s allies. 2. All personel in Greenland are convinced that serving there

subjects tem to unusual mental stress and strain. Hony are intro nectively on the outlook for abnormalities in themselves and all are nore than namely alert in detecting peculiarities in others. Luch joking is done about this but it is not all in the spirit of fun. The comerch attitude to a neuropsychiatric nationt is symmethetic and helpful, northers occure many 'cel, "well it could have happened to me". This is even well cied in the doctors, rost of them giving the men the benefit of the doubt in varue complaints. Although a "ew go to the other extreme and think quite often "coldbricks" take idvantage of the sympathetic attitude toward neuronsychiatric problems.

Reconditioning.

(a) In our 4 hospitals only 2 have instituted a reconditioning The 180 Station has bull and from that I feet to the other 2 have informal programs but the number of patients in these hospitals have not justified a formal program. I have fall that the grown is seen bandled adequntely.

(b) Physical reconditioning is started while the patient is still confined to bed in the lattle faction Heavitel. All of the cosmon below pertain

to this hos ital.

(c) Adequate attention in given to corrective exercise directed toward restoration of function of a disabled part.

(d) Ph sical training is progressive so that when a patient is discharged to duty he should be able to many full outy that day.

(e) Library facilities are available in the hospital.

(?) There are no educational classes conducted except orientation.

(a) we do not keep bettents for enough for the U.S. armed Forces Institute Courses. (n this post (A. . . #858) the orientation officer estimates that perhaps 40% of the men are interested in such courses and that short 5% are taking some courses now.

(h) The diversional handiers of the Red Gross has been sumplemented a bit by soling a small carmenter slop. I think the grower is

adequate for orthopedic and neuropsychiatric nationts.

(i) From 1 January 10/3 to 30 June 19/4, inclusive, 3695 matients were dritted to the boshitals in Greenland. 94% cre returned to buty. Of those returned to duty, I'd estimate perhaps 20% had participated in a recon it oning promen. The2 formal promans were not set up until this mar. From now on 10% of the actionts in the 188th Station Hoc itsland 190th Station Hor ital will participate.

The patients really seem to enjoy the program.

An unused and les been converted in to a recen it oning ward.

(1) The prompt is sure existed and operated by litedical officer, 2

ferrie Red Cross Workers and I enlisted man, all well trained.

(m) (n) & (o) There are no blind or deaf casualties. No provinions are rade for much came or ingraced. Buch case world be correlly evacu ted to the United States.

(5)

Dental complier and equipment have been datic betony and ade-

quate Tuple michaent remissions for dental a minment ere received when required.

(c) Two of the heavitals had redium "coilities for acting prosthetic 'entil appliances, one, the 192th, in excellent 'edilities.

(d) true Vincent's torritis is more in Greenland. It'lle mr-

ACCEPTAGE AND ADMINISTRA



A PROTATOLED

manently stationed personnel we have had about 18 cases of a very mild type, in the past year. Hospitalization was not necessary for any of the cases. Then transient personnel increases there is always a slight pick up in a very mild form of Stomatitis. No severe cases were encountered. A conservative method of treatment was followed. No instrumentation at the first visit, nouth cleaning and spreeding with mild antiseptics and a dye, usually Gentian Violet applied freely and the nation tinstructed in home care, mouth baths of peroxide and perborate alternately. At the second or third visit the teeth are scaled and chromic acid 3, used at the dried gingiva. Nouth baths were continued and patient watched for a period of 10 days.

(e) Of the total injured military parsonnel .001% had fractures of the maxillae and mandible. All of these were accidents and not battle casualties.

(f) One case required a denture and service record indicated he had

one made.

(g) The replacements recently arriving from the States are in much better dental condition than they have been heretofore. A more careful interproximal examination should be made to eliminate the possibilities of extensive hidden cavities.

(h) There is edequate dental personnel in number at present, how-

ever, it seems there should be majority open for a Base Denual Surgeon.

(i) Replacements for dental officers returning to United States

furnished prior to their departure.

(j) The promotions from 1st Lt. to Captain was satisfactory. However, those men who arrived in this area in the grade of Captain had no chance for promotion as Captain was the highest grade authorized.

(k) There was not a sufficient number of dental laboratory technicians, (067) available. Practically all, with one or two exceptions, had to be

trained by the dental officers.

(6) Nursing

(a) 1. It was thought advisable to only obtain nurses for the 188th Station Hospital. If they had been requisitioned for the others, 4 or 6 Nurses would have been the only women at isolated bases. I feel that the nursing service was adequate. 2 Or 3 nurses were sent out periodically for 2 or 3 weeks TD at the 3 smaller hospitals. They instructed enlisted personnel in various techniques and it was felt such trips were helpful.

A reduction of the T/O of the 188th Station Hos ital from 250 to 200 beds did not affect that unit, as pertaining to nursing, as only 15

murses had been requisitioned. They arrived in January 1944.

2. The clothing equipment provided for the nurses was quite suitable for the climate and type of work. The brown scersucker uniforms have

proved to be very satisfactory.

2. Our particular group of nurses were somewhat handicanped because only 2 or 3 of them had been in the army more than 6 or 8 weeks when they were sent to Greenland. As a group they were not conversant with Army Nursing routine nor with customs of the Service. However, they learned quickly through continuing lectures and have adjusted themselves satisfactorily to Army life and our peculiar position.

4. There was very little loss of time by Nurses because of

illness.

5. There are no rest camps for Nurses (or other personnel) in Creenland. The trips mentioned in par. (6) (a) 1. above provided some change for

the Nurses making such trips.

6. The morale of the Nurses was not affected adversely by working conditions, living conditions, clothing equipment or lack of recreational facilities. However, the sense of isolation and monotony of the every day life did have a depressing affect. They did not mind the weather, as they all came from New England or northern states. However, the long nights of darkness in

SECRET



MEATAICLEIL

winter and no der messin some realros und sore alight homessin, at times. On the shole, I feel to have non-unital fortunate in our protest as there have been no switch webless of health, remails neith as or concuet. I would say their some new men new relations.

7. I would suggest that meater care be exercised concerning the length of pervice in the Arry before humas are cent oversess. I would also strongly unge that in our theater the number of realized after a lear. The 18 months service now expected of all ho to to beenland, is not an heiter to maintaining a high state of efficiency. It would be not not to be less the whole group at once but a few at a time in order to have less confusion in the nursing service.

(7) Veterinary

(a) There is one Veteriner Corps to the nor the Corrend, That is enough for efficer personnel but he should be ve 2 entired ren, one of AC 858 and one of AC 859. There is no T/O vector for this. The veterinery officer is assigned to Greenland Base Cormand Headquarters.

(b) Sledge does and marcha are our only a little, with the exception of a few cats, and our diseases are the usual ones with her. Webies has not been encountered although pseudoranianless seen resorted in claime does

north of our northern most base. Worm infestation is very common.

(c) War does not used. The sledge does are for rescue to this on

the ice can. They have not been used very often.

(d) There are no work entrals other than the dors. Le food animals raised by or available to the Army. In southeastern Greenland there are a few thousand sheep. The possibility of buying rutten and larb as investigated this past spring. Inadequate facilities for proper refrigeration is shirning caused us to turn his down. Ptarriagn are killed and eaten by Army and Navy per onnel. No diseased ones have been found.

(e) No problem with animal diseases.

(f) The quality of meat, meat-food and lairy products received from the United States is good. Due to shipping and storage difficulties there is not a constant supply of fresh frozen neat and eggs. The whole received received is poorly wrapped. Personally, I think bened frozen reat is preferable to the carcass meat as it is less bulky, and weighs less. The reat, etc. is received in good condition.

(g) See (d) above. Since the larb as turned down, there is no other local meat, meat-food or 'airy products available to the Arry. Some salmon, trout and cod-fish are caught from time to time. Usually there is not enough to feed a whole mess hall. These fish are eaten soon after catching by the indi-

viduals catching them and their friends.

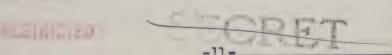
c. Preventive Medicine

(1) Venereal Disease Centrol

Venereal Disease is no problem in Greenland. Before the first troops arrived there was an understanding between the Greenland Administration and the United States that no symbilitic personnel would be sent to Greenland. If they did arrive, they would be promptly sent back. This policy has been followed strictly. I recall sending back a captain who had only been in Greenland? days. This understanding was made on the basis that there was no symbilis in the Greenland population (according to their doctors) and they did not want any introduced.

Gonorrhea is encountered rarely, as all native settlements are "off limits", except on official business. Occasional cases develop in neally arrived troops from the States, returnees from furloughs or seamen. In the past year only once case of conorrhea has developed in a soldier that was required

from a native women.





(a) This is one of the healthlest places we have soldiers and there just arm't any prevalent diseases. Colds are not as common as in the United State and the law residence of the law residence to the arrival of a ship or plane movement. Pneumonia is rare. Understand, this are this to the Arred Forces. The stive combition has a very high tuberculosis. rate. One foctor told me that by the tre she make no ulation reached De nee of 15 all had a socitive tuourculin wast. Since our contacts with the native population are so 'ew there is practically no danger.

(b) All required immunizations are kept up including the e of the

Air Corps.

Tropical Diseases Control This does not apply.

Sanitation and Hygiene

(a) There is no problem of field senitation as all proops live in barracks and cat in permanent mess halls.

(b) There is no dysentery. Gastro-intestinal food upsets are very

rare with only an occasional case due to individual indiscretion.

(c) I do not know of any cases of louse infestation. A very few cases of scabies or phthirus pubis have been observed, always in freehly errived

troops from the United States.

(d) Screening for mosquitoes and flies is done in the hospitals and messes but not throughout each base as it is not necessary. Insect repellents are available and used, as are head nets, for outdoor activities during about 3 summer months (June, July, August). As nuisances the insects are very bad out of doors.

Sanitary Engineering

(a) Water supply sources are primarily lakes that fill in the winter from ice and snow. At A.P.O. #858 there are wells sunk in the ravel flats near a river from a glacier. There is no tre tment of water at any of the 4 main bases. Sometimes, in the late summer the supply of water may be low. At several of the outposts an adequate quantity of water is a problem and the water is chloring ted in Lyster Bags. Regular bacteriological tests are run on water specimens at the 4 main bases and no contamination has been found. In general, the water supplies are adequate.

Maste disposal at 2 of the main bases is by emptying sewage into fjords. The other 2 use pit latrines or chemical toilets that are emptied into the fjord. Garbage is dumped into the fjord. Trash is burned. The methods

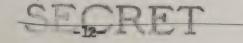
used are effective but not ideal.

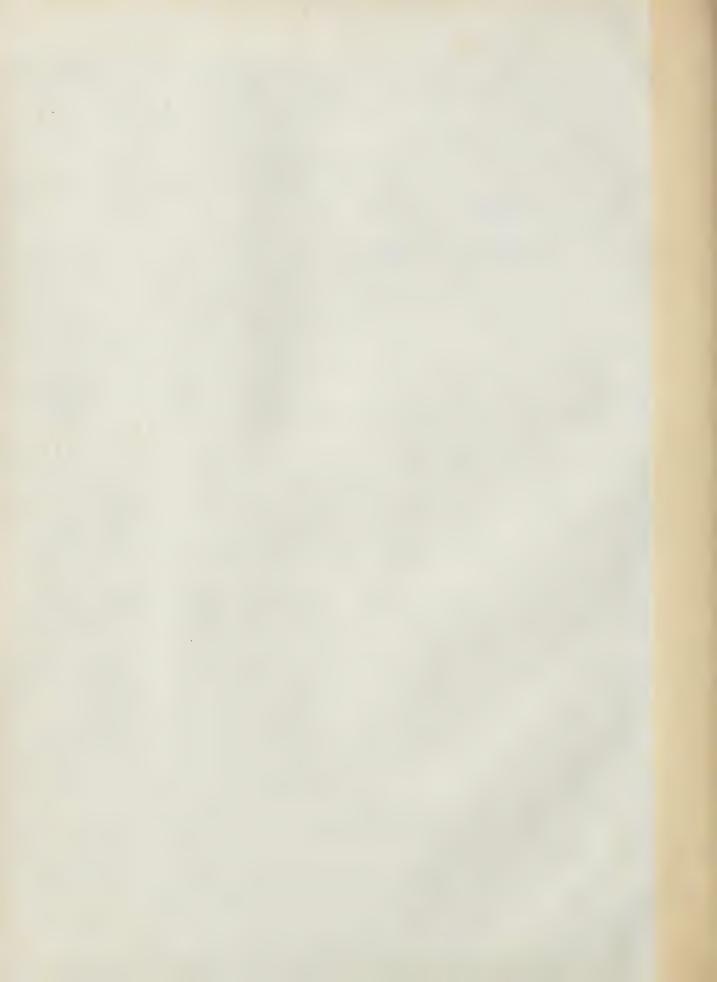
(c) I do not believe it possible to alimitate resquitous or flies in the Arctic. I quote from Information Bulletin #13 entitled "The Mos wito and Fly Problem in The Arctic". "Can these flies be externingted? The answer is-No, not in the Arctic. The region is too wast. There is too much shallow water and other favorable breeding places". I am in complete agreement after living in Labrador and Greenland. True we do not have the tundra with its shallow pools in Greenland but in its place we have innummerable pools in rocky places in the early spring and summer that have no drainage and many are inaccessible to man. In spite of this at sev ral bases and outposts all possible pools of water near the car be have been covered with oil. The decrease in the number of rosquitoes has been questionable.

(d) At no time has there been any Sanitary Corps Personnel on

duty in Greenland. At this late date I do not think it necessary to send any. Occupational Health

(a) The Army, N: vy and Coast Guard maintain their own repair shops for vehicles and planes. No civilians are employed. All loading and unloading of ships is done by the Army and the personnel of the ship.





(b) When the civilian contractors' employees were present they had exactly the same type of medical core as the Army, by Army personnel and in Army Hospitals. But as stated above the last of these left in February 1944.

(7) Laboratories

(a) I think the laboratory service is adequate. However, it would have been nice to be able to do certain application and titre tests. The few times this was necessary for Hamosic, it as a conservato send the blood to the Inited States. The time involved was 2 or 3 receive. However, there has been only one technician in Greenland coachle of this type of more, and he is now one.

(b) The personnel has been adequate for the routine trines and blood counts but not for rose condicated processes. The remand has been proceedy

utilized and all except one or two were trained locally by doctors.

(c) No complaints about equipment or supplies were heard.

(d) We shipped a few specimens to the Army Ledical . c.col but not to the Army Ledical Museum.

(e) Autorsies are dene in 100% of Army deaths. Fortunately, there

are few.

(3) Medical Intelligence

(a) Not being in a corbat theatre there was no redical intelligence data collected. There are 11 Danis' Physicians in Greenland and I have not 5 of them. 4 others have been on our bases or visited by our doctors. There has been close cooperation between the Army Doctors and this group with exchange of ideas. Professional assistance and supplies have been furnished by the Army from time to time.

(9) Nutrition

(a) All posts are on a field ration. This is a rixture of A and B with C supplementation necessary at times during the late winter. The hos stal rations are the same, with any extras that are available through the quarter laster or by purchase from hos ital funds from ships or lost Exchanges. There is no local source of food except fish occasionally served in individual masses.

(b) There has been no evidence of nutritional diseases arong the soldiers except as follows: During the late winter of 1943-44 an apprecible number of aid secondary anemias were found along soldiers who had served over a year in Greenland. No definite cause has seen found for this. Studies are being made of personnel returning from isolated outposts after 6 or 8 menths of duty. The diet at these outposts is the poorest and nost monotonous of any. So far only a few sub-clinical ranificatations (soft nums and ecohymotic areas in the skin with the cuff test) of a low vitarin C intake have been found.

(c) There is always some graphling about the monotony of the diet

but I think it is good, all things considered.

(d) If possible, more fresh fruits and veretoles would be desirable but this depends a frest deal on the availability of refrirerator chips. In 1943 several carross of such foods had high very edue to poor packing, insufficient air cure lation, foulty refrigeration or time necessary for the voyage.

(e) The homeital diets have of necessity been very smilliar to the field ration and the repular overseas homeital ration has not been available. The

light, limid and special liets for the how itals have been adequate.

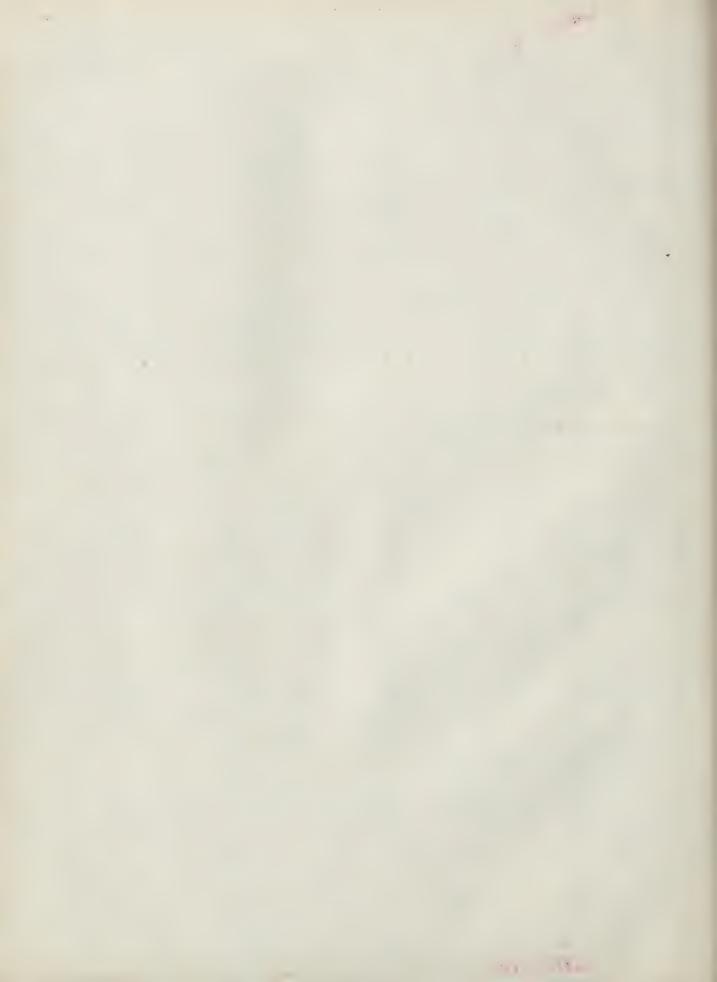
d. Medical Equipment and Supplies

(1) Medical Isintenance Unit not used by this Command since nurust 943,

the last part of any being received in February 1944.

(a) Items alow contained in Medical Laintanence Unit have been found to e in excess of our needs in a non-containt are after the first formulas were received.





7 7 7 7 Field Dressings Abdominal Packs Alcohol 5 and 54 Gallon Clycerin Magnesium Sulfate, 4 and 50 Lb. Nanthelene Flakes Oil, Castor Oil, Cod-Liver Oil, Cottonseed Bendage, Triangular Cotton, Absorbent, and Batting Gauze, Plain, 100 Yards Packet, First Aid Plaster, Adhesive, 1 Inch Plaster of Paris Wadding Sheet Stockinette Applicator, Wood Belkan Frame Rope Cun, Paper

Petrolatum, 1 and 10 Lb. Petrolatum, Liquid, Heavy, Gallon Powder, Developing and Fixing Protein, Silver, Mild and Strong Soft Soan, 1 and 25 Lb. Sulfathiazole Tablets Talc, Purified Plaster, Adhesive, 3 Inch Muslin Depressor, Tongue, Wood Gloves, (all sizes) Razor, Safety, Blades Splint, Basswood Stethosocope Tubing Suture, Catgut, Chromic & Plain, #0,1,2. Syringe, Urethral, Prophylaxis Tubing, Rubber Pad, Prescription Bag, Hot Water Button, Large and Small Clothesline

(2) (a) No Anti-Malarial Drugs needed within this Command.(b) Biologicals should be on a requisition basis only and should

be transported to destination by air.

Pin, Safety, Large and Medium

All of Class #9

(c) Surgical instruments and appliances are sufficient for all routine work, but not sufficient for elective surgery or General Hospital work.

(d) Operating lamps are excellent.

(e) Sterilizers are good and in sufficient quantity.

(f) X-Ray equipment is very good, but extra tubes should be kept in stock in isolated commands such as Greenland

(g) Dried blood plasma is in excess of needs for a non-combatant

area.

(h) Except for special projects and outposts, Medical kits and chests (except chest 60) are not needed within this Command. What chests are needed should be modeled along the lines of Case, First Aid (Armed Guard) Medical Department, U.S. Navy. Stock Number S2-510.

(i) Pole litters are in excess. Anesthesia apparatus of the Heidbrink type is not liked by some doctors. These machines were not used much in our

Command.

(j) Field dressings are not needed. (k) Tentage is not needed or used.

Generators and electrical apparatus is good.

(m) Tables are in sufficient quantity.

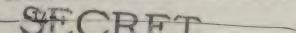
(n) Field equipment not needed after first few months.

(3) Quinine supplies have all been returned to the United States.
(4) Packing lists of complete contents of each container should be placed both on the outside and inside of each container so that they will be available to the receiving office. A consolidated shipping ticket should accompany each shipment. Each shipment should be stored as much as possible as one unit. Medical Maintenance Unit should not be divided into less than one-half a unit and items that have lost their usefulness by this cut should either be excluded or not cut at all. (Example: Once we received one foot of clothesline in a fractional shipment, this was useless for all practical nurnoses.)

(5) Spare parts should be included on all items that have a short life span.

Rusting has not been a problem.

(6) Optical Repair Unit is not on hand nor is there need for any





Harrie D

5. Observations, Data and Recommendation

a. I recommend arranging a 1/0 for the 3 se Corrend Lorden Petrolment providing in numbers and by ratings for E.M. for outpost duty and clerks for the Base Surgeon, 3 se Veterinarian and Base 1 1 1 7 1 Supply Officer.

b. Fore extensive orientation service for all personnel marticularly needed since the war in Lurone is coing so well. The need for some to stay in Greenland should to brought out because everyone is this king of coing home.

c. Nurses should only serve in Greenland one wear in my ominion.

d. As seen as possible trains to establish a or year tour of buty for all personel - particularly needed in commettee with babove.

e. Lore careful selection of nurses to so overseas is needed. I den't think it wise to send then overseas with only 6 or 1 needs service in the arry as our group was.

f. Extra X-key tubes should be movided for isolated Corrands there

there is no redical unply denot or sub-denot.

g. I would surest considering the case, First aid (armed Guard) Medical Dept., U.S.M., Stock Nur er S2-510 as a rettern for relief likit for small isolated outposts, as weather stations, etc.

h. A better system of sending occling lists with shinning cents iners should be devised. The outside list is often torn off. A duplicate list

could be put in each container.

HED I THE EN

i. It is suggested that a consolidated shiming ticket be sent with each shipment.

j. It is also surrested that Medical Islandenance Units not be ivided

into less than & a unit.

k. It is recommended that numbered station hospitals in semi-ormanent buildings be permitted to requisition complete dental units and not be dependent on chest 60 alone.

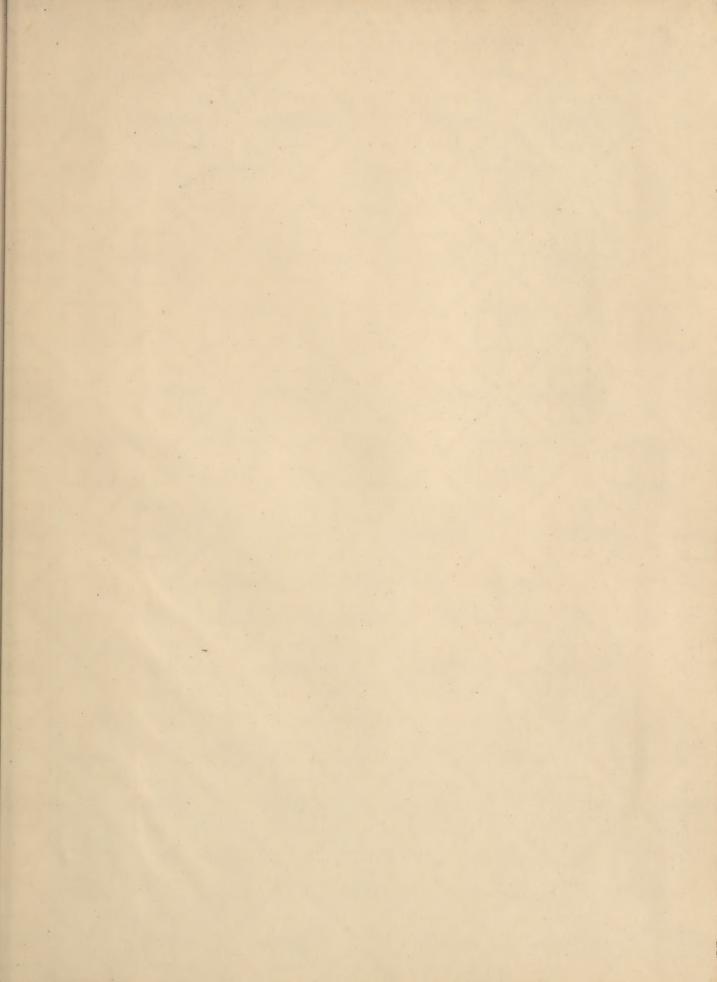
1. I would like to state here that the E.T.I.D. report is one of the best reports we have in the field. We feel that it is the one report that is

really read and through which action can be obtained.

m. In conclusion, I would like to succest that some one from the E.G.C. visit Greenland and other isolated commands (it may be other commands have been visited but Greenland has not) from time to time. Remorts can be submitted and read indefinitely but a true picture and a subsequent understanding of the reculiar situation, difficulties and problems can not be reached without actually seeing the places in question.

OTHO R. HILL Lt. Col. M.C.









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